

APPENDIX IV

LAND USE/LAND COVER	AREA IN HUC-11 SUBWATERSHED (ACRES)					
	050	070	100	110	120	130
Deciduous Forest	518	53	12,030	14,769	10,243	7,612
Emergent Herbaceous Wetlands				17		
Evergreen Forest	315	1	11,715	6,467	12,990	6,458
High Intensity: Commercial/Industrial	1		73	5	2	75
High Intensity: Residential	6		3			17
Low Intensity: Residential	38		79	0	12	149
Mixed Forest	355	3	7,434	6,673	11,472	6,873
Open Water	12		486	129	1,608	217
Other Grasses: Urban/Recreational	8		59		5	77
Pasture/Hay	40	0	299	0	31	4,746
Row Crops	2		102		2	1,769
Transitional	93	5	665	181	465	617
Quarries/Strip Mines	108	0	1,879			
Woody Wetlands					1	
Total	1495	63	34,823	28,224	36,831	28,610.0

Table A4-1. Land Use Distribution in Ocoee River Watershed by HUC-11. Data are from 1992 Multi-Resolution Land Characterization (MRLC) derived by applying a generalized Anderson Level II system to mosaics of Landsat thematic mapper images collected every five years.

HYDROLOGIC SOIL GROUPS

GROUP A SOILS have low runoff potential and high infiltration rates even when wet. They consist chiefly of sand and gravel and are well to excessively drained.

GROUP B SOILS have moderate infiltration rates when wet and consist chiefly of soils that are moderately deep to deep, moderately to well drained, and moderately coarse to coarse textures.

GROUP C SOILS have low infiltration rates when wet and consist chiefly of soils having a layer that impedes downward movement of water with moderately fine to fine texture.

GROUP D SOILS have high runoff potential, very low infiltration rates, and consist chiefly of clay soils.

Table A4-2. Hydrologic Soil Groups in Tennessee as Described in WCS.

STATION	HUC-11	NAME	AREA (SQ. MILES)	PERIOD OF OBSERVATIONS	FLOW (CFS)		
					Min	Max	Mean
03559500	06020003050	Ocoee River @ Copperhill	352.0	03/01/03-01/15/71	76.0	26,200.0	849.0
03560500	06020003100	Davis Mill Creek	5.2	08/01/40-10/10/94	4.0	950.0	54.0
03560700	06020003100	Copper Basin Area 6	0.01	07/16/41-10/06/49			
03560800	06020003100	Copper Basin Area 5	0.24	07/02/41-05/01/51			
03561200	06020003100	Copper Basin Area 1	0.01	08/17/44-08/07/51			
03561300	06020003100	Copper Basin Area 1	0.01	06/12/44-05/01/51			
03561350	06020003100	North Potato Creek	14.2				
03561400	06020003100	Ocoee River	446.0	08/02/66-09/14/73			
03561500	06020003100	Ocoee River	447.0	05/01/17-10/10/94	120.0	15,200.0	1,057.0
03561700	06020003100	Copper Basin Area 4	0.01	08/08/40-02/17/45			
03561800	06020003100	Copper Basin Area 3	0.01	08/10/36-10/06/49			
03563000	06020003110						

Table A4-3. Historical USGS Streamflow Data Summary Based on Mean Daily Flows in Ocoee River Watershed. Min, absolute minimum flow for period of record.

PARAMETER ID	PARAMETER NAME
00010	Water Temperature (Degrees Centigrade)
00060	Flow, Stream, Mean Daily (cfs)
00061	Flow, Stream, Instantaneous (cfs)
00065	Stream Stage (Feet)
00078	Transparency, Secchi Disc (Meters)
00080	Color (Platinum-Cobalt Units)
00094	Specific Conductance, Field ($\mu\text{mhos/cm}$ @ 25° C)
00095	Specific Conductance, Field ($\mu\text{mhos/cm}$ @ 25° C)
00299	Oxygen, Dissolved, Analysis by Probe (mg/L)
00300	Oxygen, Dissolved (mg/L)
00310	BOD 5 Day @ 20° C (mg/L)
00335	COD (Low Level) in .025 N $\text{K}_2\text{Cr}_2\text{O}_7$ (mg/L)
00340	COD (High Level) in .025 N $\text{K}_2\text{Cr}_2\text{O}_7$ (mg/L)
00400	pH (Standard Units)
00410	Alkalinity, Total (mg/L as CaCO_3)
00431	Alkalinity, Total Field (mg/L as CaCO_3)
00515	Residue, Total Filtrable (mg/L)
00530	Residue, Total Nonfiltrable (mg/L)
00605	Nitrogen, Organic, Total (mg/L as N)
00608	Nitrogen Ammonia, Dissolved (mg/L as N)
00610	Nitrogen Ammonia, Total (mg/L as N)
00613	Nitrite Nitrogen, Dissolved (mg/L as N)
00619	Ammonia, Unionized (Calculated From Temp-pH- NH_4 ; mg/L)
00620	Nitrate Nitrogen, Total (mg/L as N)
00623	Nitrogen, Kjeldahl, Dissolved (mg/L as N)
00625	Nitrogen, Kjeldahl, Total (mg/L as N)
00630	Nitrite Plus Nitrate, Total (1 Determination mg/L as N)
00631	Nitrite Plus Nitrate, Dissolved (1 Determination mg/L as N)
00665	Phosphorus, Total (mg/L as P)
00666	Phosphorus, Dissolved (mg/L as P)
00671	Phosphorus, Dissolved Orthophosphate (mg/L as P)
00680	Carbon, Total Organic (mg/L as C)
00900	Hardness, Total (mg/L as CaCO_3)
00915	Calcium, Dissolved (mg/L as Ca)
00916	Calcium, Total (mg/L as Ca)
00925	Magnesium, Dissolved (mg/L as Mg)
00927	Magnesium, Total (mg/L as Mg)
00929	Sodium, Total (mg/L as Na)
00930	Sodium, Dissolved (mg/L as Na)
00935	Potassium, Dissolved (mg/L as K)
00937	Potassium, Total (mg/L as K)
00940	Chloride, Total In Water (mg/L)
00941	Chloride, Dissolved in Water (mg/L)
00945	Sulfate, Total (mg/L as SO_4)
00946	Sulfate, Dissolved (mg/L as SO_4)
00950	Fluoride, Dissolved (mg/L as F)
00955	Silica, Dissolved (mg/L as SiO_2)
01002	Arsenic, Total ($\mu\text{g/L}$ as As)
01007	Barium, Total ($\mu\text{g/L}$ as Ba)
01025	Cadmium, Dissolved ($\mu\text{g/L}$ as Cd)
01027	Cadmium, Total ($\mu\text{g/L}$ as Cd)
01034	Chromium, Total ($\mu\text{g/L}$ as Cr)
01040	Copper, Dissolved ($\mu\text{g/L}$ as Cu)

01042	Copper, Total (µg/L as Cu)
01045	Iron, Total (µg/L as Fe)
01046	Iron, Dissolved (µg/L as Fe)
01049	Lead, Dissolved (µg/L as Pb)
01051	Lead, Total (µg/L as Pb)
01065	Nickel, Dissolved (µg/L as Ni)
01067	Nickel, Total (µg/L as Ni)
01075	Silver Dissolved (µg/L as Ag)
01077	Silver Total (µg/L as Ag)
01090	Zinc, Dissolved (µg/L as Zn)
01092	Zinc, Total (µg/L as Zn)
01105	Aluminum, Total (µl as Al)
01106	Aluminum, Dissolved (µl as Al)
01147	Selenium, Total (µl as Se)
31613	Fecal Coliform (Membrane Filter, M-FC Agar at 44.5° C, 24 h)
31616	Fecal Coliform (Membrane Filter, M-FC Broth at 44.5° C)
31625	Fecal Coliform (Membrane Filter, M-FC, 0.7 UM)
31673	Fecal Streptococci, (Membrane Filter, KF Agar, at 35°C, 48h)
32211	Chlorophyll-A, Spectrophotometric, Acid, Corrected (µg/L)
39086	Alkalinity, Water, Dissolved, Field Titration (mg/l as CaCO ₃)
70300	Residue, Total Filtable (Dried at 180°C, as mg/L)
70507	Phosphorus, in Total Orthophosphate (mg/L as P)
71845	Nitrogen, Ammonia, Total (mg/L as NH ₄)
71890	Mercury, Dissolved (µg/L as Hg)
71900	Mercury, Total (µg/L as Hg)
80154	Suspended Sediment (Evaporation at 110°C, as mg/L)
82078	Turbidity, Field (as Nephelometric Turbidity Units, NTU)
82079	Turbidity, Lab (as Nephelometric Turbidity Units, NTU)

Table A4-4a. Water Quality Parameters and Codes.

PARAMETER ID				
	050	110	120	130
00010	a	b,c,d	j	l,m,n
00060			j	
00061			j	l,m
00065				n
00078			j	
00080				
00094	a	b,c,d	j	n
00095		b,c,d		
00300	a	b,c,d	j	
00310	a			
00335	a	c		
00400	a	b,c,d	g,i,j	
00431				n
00515		c		
00530	a	c		m,n
00605			j	
00610	a	c	j	m,n
00619	a	c	j	m,n
00630	a	c	j	n
00665	a	c	j	n
00671			j	n
00680			j	n
00900	a	c		m
00915			j	n
00916			j	n
00925			j	n
00927			j	n
00941				n
00946				n
01002	a	c		
01025			j	n
01027	a	c	j	
01034	a	c	j	
01040			j	n
01042	a	c	j	n
01045	a		j	n
01046			j	n
01049			j	n
01051	a	c	j	
01065				n
01067	a	c		
01077	a			
01090			j	n
01092	a	c	j	n
01105			j	n
01106			j	n
01147	a			
31616	a	b,c,d	g,h,i	m
32211			j	
70300				n
71890			j	
71900	a	c	j	

82078			j	l,n
82079			j	n

Table A4-4b. Water Quality Parameters Monitored in the Ocoee River Watershed.

CODE	STATION	ALIAS	AGENCY	LOCATION
a	OCOEE37.9	OCOEE037.9PO	TDEC	Ocoee River @ RM 37.9
b	040332		USFS	Ocoee River Below Olympic Site
c	002050	OCOEE019.6PO	TDEC	Ocoee River @ RM 19.6
d	040331		USFS	Ocoee River Upstream from Olympic Site
e	475685		TVA	Parksville Lake
f	475854		TVA	Ocoee #1 Reservoir
g	040328		USFS	Parksville #2
h	040322		USFS	Chilhowee #2
i	040325		USFS	MAC Point #2
j	475684		TVA	Parksville Lake
k	475060		TVA	0.4 Mi ESE of Benton Station
l	475529		TVA	Ocoee Dam #1 Scroll Case
m	FOURMILE001.8	FOURM001.8PO	TDEC	Fourmile Creek @ RM 1.8 (u/s of STP)
n	47616		TVA	Below Ocoee Dam #1

Table A4-4c. Water Quality Monitoring Stations in Ocoee River Watershed. TDEC, Tennessee Department of Environment and Conservation; TVA, Tennessee Valley Authority; USFS, United States Forest Service.

FACILITY NUMBER	FACILITY NAME	SIC	SIC NAME	MADI	WATERBODY	SUBWATERSHED
TN0024449	Copperhill STP	4952	Sewerage Systems	Minor	Ocoee River @ RM 37.0	06020003070
TN0002411	Interstate Holdings	2819	Industrial Inorganic Chemicals	Minor	Ocoee River @ RM 37.1 and Davis Mill Creek	06020003100
TN0056413	Copper Basin Medical Center	4952	Sewerage Systems	Minor	Mile 0.5 of a Wet Weather Conveyance to Central Mine Branch @ RM 0.5	06020003100
TN0059358	Copper Basin UB STP	4952	Sewerage Systems	Minor	Ocoee River @ RM 33.1	06020003100
TN0005479	Ocoee #3 Hydro Plant	4911	Electric Services	Minor	Ocoee River @ RM 25.1	06020003110
TN0027502	TVA #2 Hydro Plant	4911	Electric Services	Minor	Ocoee River @ RM 19.7	06020003110
TN0067334	Benton STP	4952	Sewerage Systems	Minor	Four Mile Creek @ RM 1.7	06020003130
TN0027449	TVA #1 Hydro Plant	4911	Electric Services	Minor	Ocoee River @ RM 12.0	06020003130

Table A4-5. Active Permitted Point Source Facilities in the Ocoee River Watershed. SIC, Standard Industrial Classification; MADI, Major Discharge Indicator; STP, Sewage Treatment Plant.

LOG NUMBER	COUNTY	DESCRIPTION	WATERBODY	HUC-11
99.215	Polk	Culvert	Wetland	06020003100
99.276	Polk	Culvert and Wetland Fill	Sweetwater Creek and Tributaries	06020003100
99.454	Polk	Dam Repair	Ocoee River	06020003110

Table A4-6. Individual ARAP Permits Issued January 1994 Through June 2000 in Ocoee River Watershed.